



# Explorers Program Overview

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**2019 Heliophysics MIDEX Explorers**

**AO Pre-Proposal Conference**

**July 23, 2019**



# Explorers Program Overview (1 of 2)

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- NASA's oldest, continuous program
  - Over 100 successful missions since 1958
- Program Objective—Frequent flight opportunities for world-class scientific investigations
- Uncoupled program of missions with unique science capabilities supporting heliophysics and astrophysics science goals



# Explorers Program Overview (2 of 2)



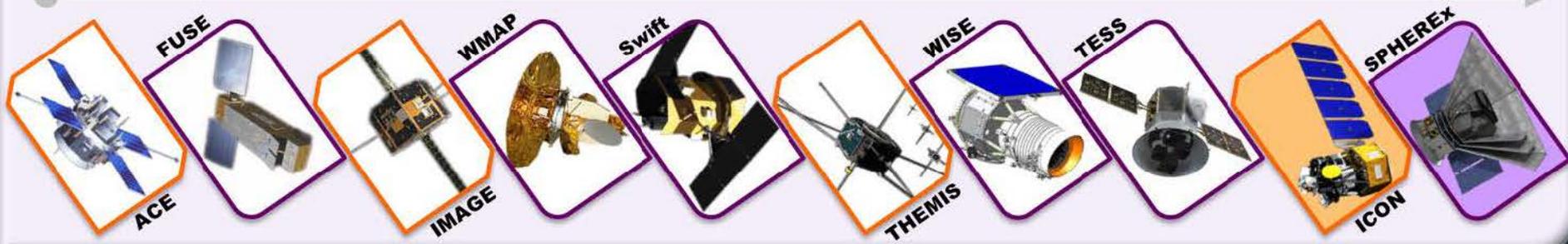
- Mission class characterized by size, schedule, and budget cost caps
  - MIDEX
  - SMEX
  - Mission of Opportunity
- Missions solicited through Announcement of Opportunity
- Missions developed in Principal Investigator mode
- Program Management oversight provided by the Explorers Program Office at GSFC



# Explorers Missions



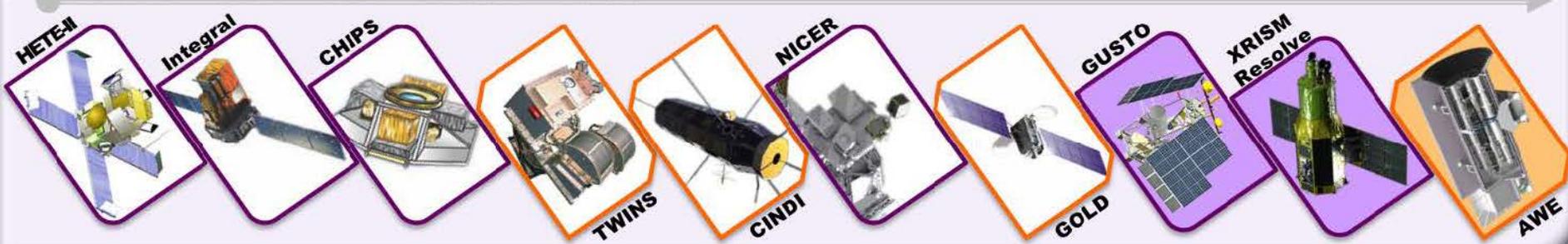
## MIDEX



## SMEX



## UNEX • MO • INTERNATIONALS



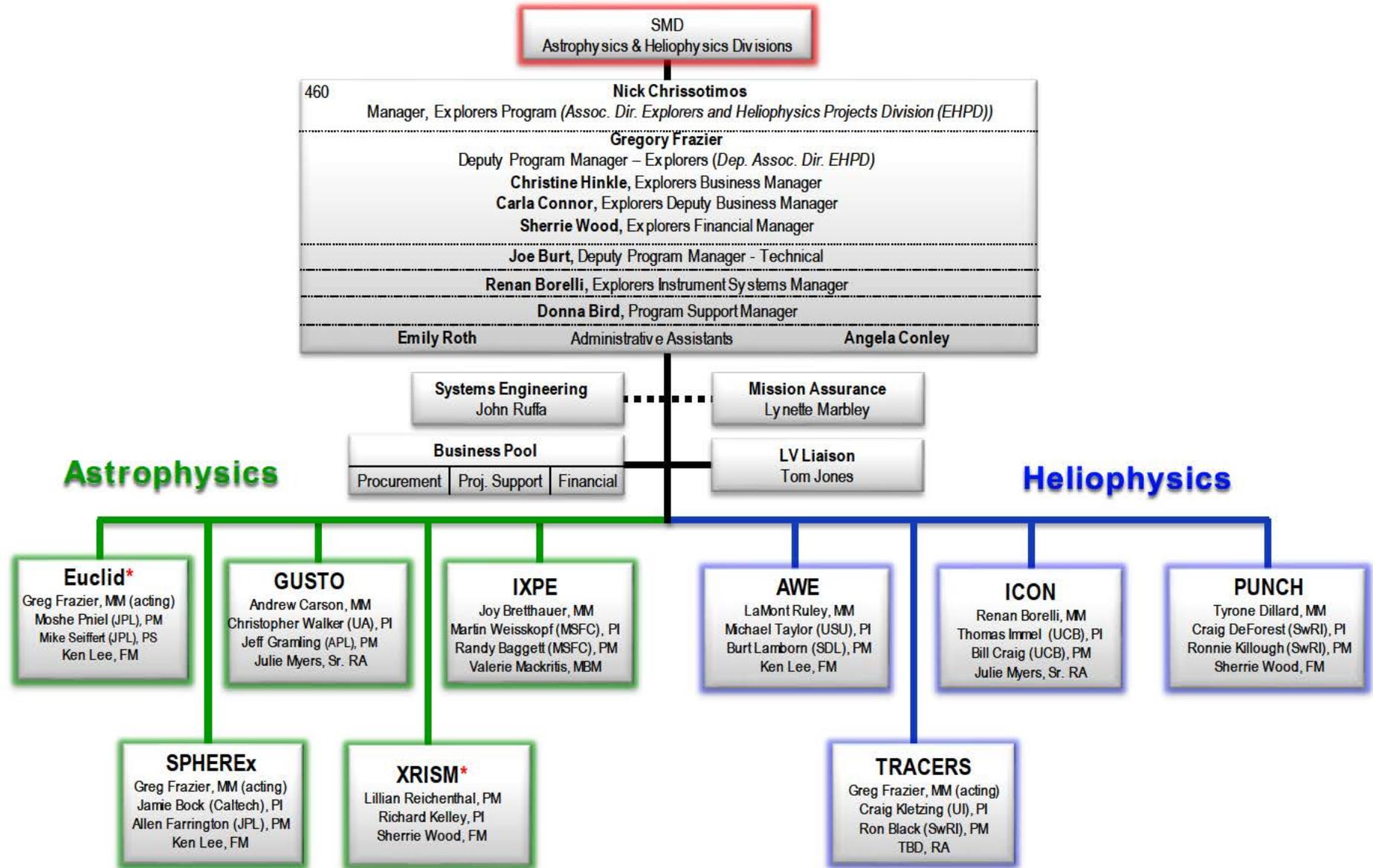
 Astrophysics Missions

 Current Astrophysics Missions

 Heliophysics Missions

 Current Heliophysics Missions

# Explorers Program Organization Chart



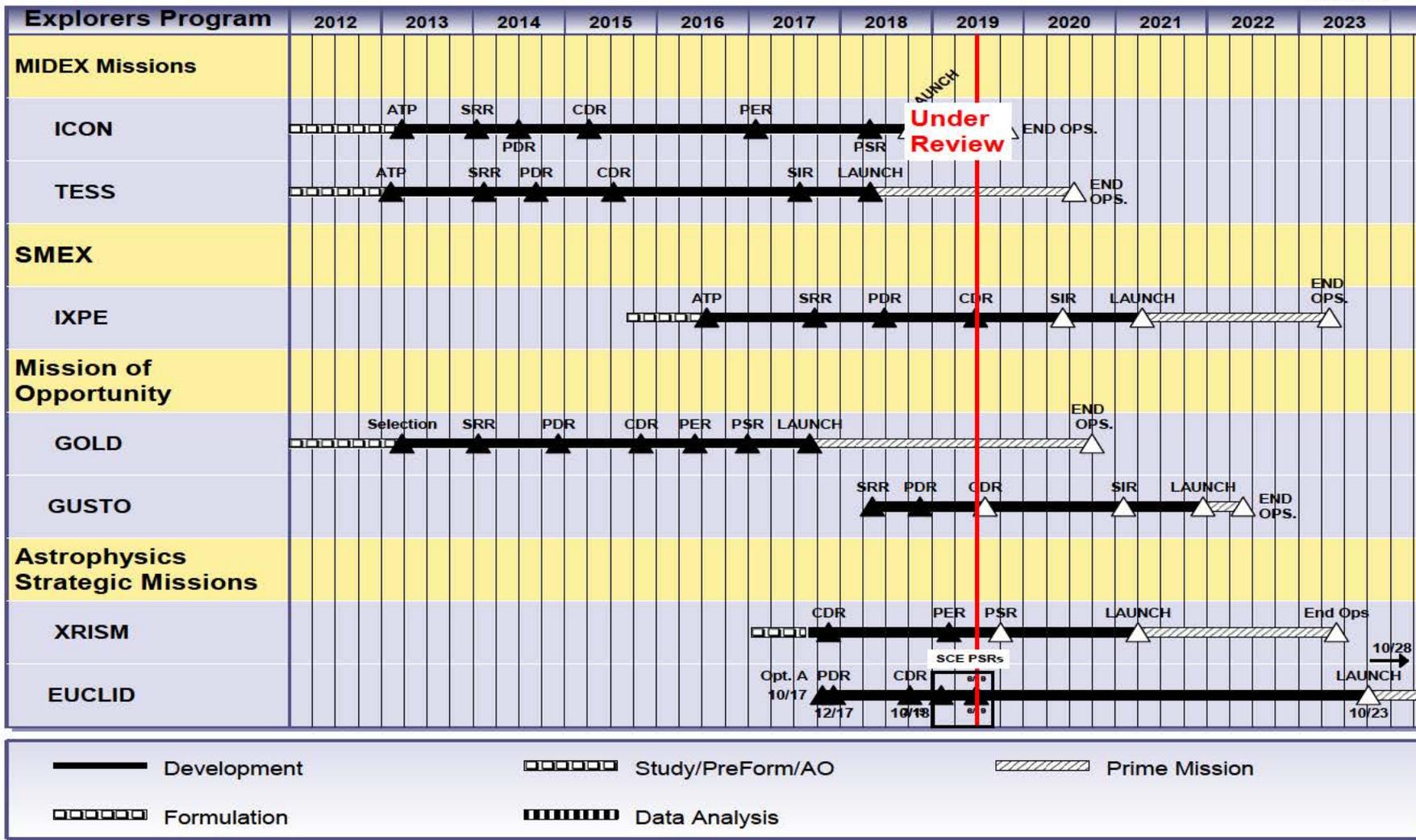
\*Strategic Missions



# Explorers Program Master Schedule



6/30/19





# Mission Development Responsibilities



- **NASA responsibility**

- Program administration
- Moderate insight/oversight
- Project review process
- Technical Authority
- Launch vehicle procurement

- **PI responsibility**

- Level-1 science requirements/design concept
- Mission implementation
- Technical, cost, and schedule performance
- Peer reviews
- Safety and mission assurance
  - › Develop and execute a Mission Assurance Implementation Plan based on Explorers Mission Assurance Requirements.



# Additional Information

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## **Explorers Website:**

<http://explorers.gsfc.nasa.gov>

## **Heliophysics Explorers Program 2019 MIDEX Acquisition Website:**

<https://explorers.larc.nasa.gov/HPMIDEX/>